



PTO/SB/08A (08-03)

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Substitute for form 1449/PTO

Complete if Known**INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

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Sheet 1 of 7

Application Number	10/600,286
Filing Date	June 20, 2003
First Named Inventor	Guillermo C. Bazan
Art Unit	1637
Examiner Name	Riley, Jezia
Attorney Docket Number	51871-000003

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
JR	144	US- 4,948,843 A	08-14-1990	Roberts et al.	
	145	US- 4,950,587 A	08-21-1990	Roberts et al.	
	146	US- 5,408,109 A	04-18-1995	Heeger et al.	
	147	US- 5,612,221 A	03-18-1997	Simons et al.	
	148	US- 5,869,350 A	02-09-1999	Heeger et al.	
	149	US- 5,881,083 A	03-09-1999	Diaz-Garcia et al.	
	150	US- 5,968,762 A	10-19-1999	Jadamec et al.	
	151	US- 5,990,479 A	11-23-1999	Weiss et al.	
	152	US- 6,280,933 B1	08-28-2001	Glazer et al.	
	153	US- 6,534,329 B1	03-18-2003	Heeger et al.	
	154	US- 6,743,640 B1	06-01-2004	Whitten	
	155	US- 2002/0009728 A1	01-24-2002	Bittner	
	156	US- 2002/0034747 A1	03-21-2002	Bruchez	
	157	US- 2002/0150759 A1	10-17-2002	Jones	
	158	US- 2002/0177136 A1	11-28-2002	McBranch	
	159	US- 2003/0054413 A1	03-20-2003	Kumaraswamy	
	160	US- 2004/0241768 A1	12-02-2004	Whitten	
	161	US- 60/202,647	05-08-2000	Whitten	
JR	162	US- 60/226,902	08-23-2000	Whitten	

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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ "Number" "Kind Code" (if known)				
JR	163	WO 99/35288 A1	07-15-1999	Minnesota Mining and Manufacturing Company		
	164	WO 00/14278 A1	03-16-2000	The Secretary of State for Defence		
	165	WO 00/66790 A1	11-09-2000	The Regents of the University of California		
	166	WO 02/081735 A2	10-17-2002	Infectio Diagnostic (I.D.I.) Inc.		
JR	167	WO 2004/001379 A2	12-31-2003	The Regents of the University of California		

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Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Application Number	10/600,286
		Filing Date	June 20, 2003
		First Named Inventor	Guillermo C. Bazan
		Art Unit	1637
		Examiner Name	Riley, Jezia
Sheet	2	of	7
		Attorney Docket Number	51871-000003

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 2

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Sheet 2 of 7 Attorney Docket Number 51871-000003

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NON PATENT LITERATURE DOCUMENTS				
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JR	174	Wang et al., "Size-Specific Interactions Between Single- and Double-Stranded Oligonucleotides and Cationic Water-Soluble Oligofluorenes", <i>Adv. Funct. Mater.</i> , June 2003, 13(6), 463-467.		
JR	175	Stork et al., "Energy Transfer in Mixtures of Water-Soluble Oligomers: Effect of Charge, Aggregation, and Surfactant Complexation", <i>Adv. Mater.</i> , March 2002, 14(5), 361-366.		
JR	176	Leclerc, "Optical and Electrochemical Transducers Based on Functionalized Conjugated Polymers", <i>Adv. Mater.</i> , 1999, 11(18), 1491-1498.		
JR	177	Balakin et al., "Conjugates of oligonucleotides with polyaromatic fluorophores as promising DNA probes", <i>Biosensors & Bioelectronics</i> , 1998, 13, 771-778.		
JR	178	Ho et al., "Colorimetric and Fluorimetric Detection of Nucleic Acids Using Cationic Polythiophene Derivatives", <i>Angew. Chem. Int. Ed.</i> , 2002, 41(9), 1548-1551.		
JR	179	McQuade et al., "Conjugated Polymer-Based Chemical Sensors", <i>Chem. Rev.</i> , 2000, 100, 2537-2574.		
JR	180	Chen et al., "Highly sensitive biological and chemical sensors based on reversible fluorescence quenching in a conjugated polymer", <i>PNAS</i> , October 1999, 96(22), 12287-12292.		
JR	181	Liu et al., "Effect of Chromophore-Charge Distance in the Energy Transfer Properties of Water-Soluble Conjugated Oligomers", <i>J. Am. Chem. Soc.</i> , 2003, 125, 6705-6714.		
JR	182	Gaylord et al., "DNA detection using water-soluble conjugated polymers and peptide nucleic acid probes", <i>PNAS</i> , August 2002, 99(17), 10954-10957.		
JR	183	Bronich et al., "Recognition of DNA Topology in Reactions between Plasmid DNA and Cationic Copolymers", <i>J. Am. Chem. Soc.</i> , September 2000, 122(35), 8339-8343.		

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JR	184	Chen et al., "Tuning the Properties of Conjugated Polyelectrolytes through Surfactant Complexation", J. Am. Chem. Soc., 2000, 122, 9302-9303.		
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JR	191	Cardullo et al., "Detection of Nucleic Acid Hybridization by Nonradiative Fluorescence Resonance Energy Transfer", Proc. Natl. Acad. Sci. USA, December 1998, 85, 8790-8794.		
JR	192	Gallot et al., "Poly(L-lysine) containing azobenzene units in the side chains: influence of the degree of substitution on liquid crystalline structure and thermotropic behaviour", Liquid Crystals, 1997, 23(1), 137-146.		
JR	193	Wang et al., "Biosensors from conjugated polyelectrolyte complexes", PNAS, January 2002, 99(1), 49-53.		

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JR	194	Liu et al., "Methods for strand-specific DNA detection with cationic conjugation polymers suitable for incorporation into DNA chips and microarrays", PNAS Early Edition, December 2004, p. 1-5		
JR	195	Vehse et al., "Light Amplification by Optical Excitation of a Chemical Defect in a Conjugated Polymer", Adv. Mater., June 2004, 16(12), 1001-1004.		
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JR	197	Liu et al., "Interpolyelectrolyte Complexes of Conjugated Copolymers and DNA: Platforms for Multicolor Biosensors", J. Am. Chem. Soc., 2004, 126, 1942-1943.		
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JR	201	Epstein et al., "Microarray technology - enhanced versatility, persistent challenge", Current Opinion in Biotechnology, 2000, 11, 36-41.		
JR	202	Heeger et al., "Making Sense of polymer-based biosensors", PNAS, October 1999, 96(22), 12219-12221.		
JR	203	Patel et al., "Energy transfer analysis of Fos-Jun dimerization and DNA binding", Proc. Natl. Sci. USA, July 2994, 91, 7360-7364.		

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JR	204	Lohse et al., "Fluorescein-Conjugated Lysine Monomers for Solid Phase Synthesis of Fluorescent Peptides and PNA Oligomers", Bioconjugate Chem., 1997, 8, 503-509.	
JR	205	Smith et al., "The synthesis of oligonucleotides containing an aliphatic amino group at the 5' terminus: synthesis of fluorescent DNA primers for use in DNA sequence analysis", Nucleic Acids Research, 1985, 13(7) 2399-2412.	
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JR	207	Lipshutz et al., "High density synthetic oligonucleotide arrays", Nature Genetics Supplement, January 1999, 21, 20-24.	
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JR	213	Liu et al., "Homogeneous Fluorescent-Based DNA Detection with Water-Soluble Conjugated Polymers", Chem. Mater., 2004, 16, 4467-4476.	

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JR	214	Wolcott, "Advances in Nucleic Acid-Based Detection Methods", Clinical Microbiology Reviews, October 1992, 5(4), 370-386.		
JR	215	Umek et al., "Electronic Detection of Nucleic Acids, A Versatile Platform for Molecular Diagnostics", Journal of Molecular Diagnostics, May 2001, 3(2), 74-84.		
JR	216	Stevens et al., "Exciton dissociation mechanisms in the polymeric semiconductors poly(9,9-diethylfluorene) and poly(9,9-diethylfluorene-co-benzothiadiazole)", Physical Review B, April 2001, 63, 1-18.		
JR	217	Wang, "Survey and Summary From DNA biosensors to gene chips", Nucleic Acids Research, 2000, 28(16), 3011-3016.		
JR	218	Beier et al., "Versatile derivatisation of solid support media for covalent bonding on DNA-microchips", Nucleic Acids Research, 1999, 27(9), 1970-1977.		

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	1	BALAKIN, K.V. et al. Conjugates of oligonucleotides with polycyclic aromatic fluorophores as promising DNA probes ¹ ; <i>Biosensors and Bioelectronics</i> (1998) 13:771-778. <i>Duplicate</i>	
JR	2	BARDEA, A. et al. Sensing and amplification of oligonucleotide-DNA interactions by means of impedance spectroscopy: a route to a Tay-Sachs sensor; <i>Chem. Commun.</i> (1999) 21-22.	
JR	3	BAUR, J.W., et al. Thin-Film Light-Emitting Devices Based on Sequentially Adsorbed Multilayers of Water-Soluble Poly (p-phenylene)s; <i>Advanced Materials</i> (1998) 10:17:1452-1455.	
JR	4	BEHR, J.P. Synthetic Gene-Transfer Vectors; <i>Acc. Chem. Res.</i> (1993) 26: 274-278.	
JR	5	BEHR, J.P. DNA Strongly Binds to Micelles and Vesicles Containing Lipopolyamines or Lipointercalants; <i>Tetrahedron Lett.</i> (1986) 27:48:5861-5864.	
JR	6	BENSON, S.C. et al. Heterodimeric DNA-binding dyes designed for energy transfer: synthesis and spectroscopic properties; <i>Nucleic Acids Res.</i> (1993) 21:24:5727-5735.	
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Examiner's Signature	/Jezia Riley/	Date Considered	05/30/2006
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Application Number	10/600,286
Sheet	2	Filing Date	June 20, 2003
	of 11	First Named Inventor	Guillermo C. Bazan
		Art Unit	1637
		Examiner Name	Riley, Jezia
		Attorney Docket Number	51871-000003

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher city and/or country where published	T ²
JR	15	CASTRO, A. and WILLIAMS, J.G.K. Single-molecule detection of specific nucleic acid sequences in unamplified genomic DNA; <i>Anal. Chem.</i> (1997) 69:19:3915-3920.	
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		First Named Inventor	Guillermo C. Bazan
		Art Unit	1637
		Examiner Name	Riley, Jezia
		Attorney Docket Number	51871-000003

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JR	29	EGHOLM, M. et al. Recognition of Guanine and Adenine in DNA by Cytosine and Thymine Containing Peptide Nucleic Acids (PNA); <i>J. Am. Chem. Soc.</i> (1992) 114:9677-9678.	
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Sheet	4	Filing Date	June 20, 2003
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		Art Unit	1637
		Examiner Name	Riley, Jezia
		Attorney Docket Number	51871-000003

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JR	43	GERSHON, H. et al. Mode of Formation and Structural Features of DNA-Cationic Liposome Complexes Used for Transfection; <i>Biochemistry</i> (1993) 32:7143-7151.	
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JR	50	IZUMRUDOV, V.A. et al. The Influence of chain length of a competitive polyanion and nature of monovalent counterions on the direction of the substitution reaction of polyelectrolyte complexes; <i>Makromol. Chem., Rapid Commun.</i> (1988) 9:7-12.	
JR	51	IZUMRUDOV, V.A. et al. Competitive Reactions in Solutions of DNA and Water-Soluble Interpolyelectrolyte Complexes; <i>Biopolymers</i> (1995) 35:523-531.	
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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

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Sheet 5

of 11

Application Number	10/600,286
Filing Date	June 20, 2003
First Named Inventor	Guillermo C. Bazan
Art Unit	1637
Examiner Name	Riley, Jezia

Attorney Docket Number 51871-000003

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JR	57	JENKINS, Y. and BARTON, J.K. A Sequence-Specific Molecular Light Switch: Tethering of an Oligonucleotide to a Dipyridophenazine Complex of Ruthenium (II); <i>J. Am. Chem. Soc.</i> (1992) 114:8736-8738.	
	58	JOHANSSON, M.K. et al. Intramolecular Dimers: A New Strategy to Fluorescence Quenching in Dual-Labeled Oligonucleotide Probes; <i>J. Am. Chem. Soc.</i> (2002) 124:6950-6956.	
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JR	66	KNEMEYER, J. et al. Probes for Detection of Specific DNA... <i>Anal. Chem.</i> (2000) 72:3717-3724	
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	68	LEGLER, M. Optical and Electrochemical Transducers Based on Functionalized Conjugated Polymers; <i>Adv. Mater.</i> (1999) 11:18:1491-1498. <i>Duplicate</i>	
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JR	70	LE-PECQ, J.B. and PAOLETTI, C. A Fluorescent Complex between Ethidium Bromide and Nucleic Acids; <i>J. Mol. Biol.</i> (1967) 27:87-106.	

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Sheet 6 of 11			

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JR	71	LEULLIOT, N. and VARANI, G. Current Topics in RNA-Protein Recognition: Control of Specificity and Biological Function through Induced Fit and Conformational Capture; <i>Biochemistry</i> (2001) 40:27:7947-7956.		
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		Attorney Docket Number	51871-000003

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JR	85	MILLER, I.R. and BACH, D. Interaction of DNA with Heavy Metal Ions and Polybases: Cooperative Phenomena; <i>Biopolymers</i> . (1968) 6:169-179.	
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Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Application Number	10/600,286
Sheet 8 of 11		Filing Date	June 20, 2003
		First Named Inventor	Guillermo C. Bazan
		Art Unit	1637
		Examiner Name	Riley, Jezia
		Attorney Docket Number	51871-000003

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missing JR	96	PETERLINZ, K.P. et al. Observation of Hybridization and Dehybridization of Thiol-Tethered DNA using Two-Color Surface Plasmon Resonance Spectroscopy; <i>J. Am. Chem. Soc.</i> (1997) 119:3401-3402.	
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JR	107	SCHORK, N.J. et al. Single nucleotide polymorphisms and the future of genetic epidemiology; <i>Clin. Genet.</i> (2000) 58:250-264.	

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		Filing Date	June 20, 2003
		First Named Inventor	Guillermo C. Bazan
		Art Unit	1637
		Examiner Name	Riley, Jezia
Sheet 9 of 11		Attorney Docket Number	51871-000003

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JR	108	SEYMOUR, L.W. et al. Cationic block copolymers as self-assembling vectors for gene delivery; <i>Self-assembling Complexes for Gene Delivery</i> ; (1998) 11:219-239.	
	109	SHINOZUKA, K. et al. A Novel Multifunctionality Labelled DNA Probe Bearing an Intercalator and a Fluorophore; <i>J. Chem. Soc., Chem. Commun.</i> (1994) 1377-1378.	
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JR	121	TATON, T.A. et al. Scanometric DNA Array Detection with Nanoparticle Probes; <i>Science.</i> (2000) 289:1757-1760.	

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		First Named Inventor	Guillermo C. Bazan
		Art Unit	1637
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JR	122	TATON, T.A. et al. Two-Color Labeling of Oligonucleotide Arrays via Size-Selective Scattering of Nanoparticle Probes; <i>J. Am. Chem. Soc.</i> (2001) 123:5164-5165.	
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	127	VARANI, G. RNA-Protein Intermolecular Recognition; <i>Acc. Chem. Res.</i> (1997) 30:5:189-195.	
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JR	138	WHITCOMBE, D. et al. Detection of PCR products using self-probing amplicons and fluorescence; <i>Nat. Biotechnol.</i> (1999) 17:804-807.		
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